Index to Volume 12

1975

A

ALBERTI, K. G. M. M.: The future of the measurement of intermediary metabolites in clinical medicine, 192

ALBERTI, K. G. M. M.: *See* BRAYBROOKE, J. *et al.*

Albumin, serum, measurement. Technical Bulletin No. 34, 33

AMES, A. C., and BAMFORD, E.: An appraisal of the 'Vacutainer' system for blood collection, 151

Amniotic fluid, investigation in the assessment of feto-placental function, 83

Analyser, Six-channel, development and evaluation for urine specimens, 25

Analysers, automatic, application of analytical methods, 163

Application of analytical methods to automatic analysers. Vickers Award lecture, 163

Appraisal of the 'Vacutainer' system for blood collection, 151

Assay of cortisol in serum by competitive protein-binding without solvent extraction, 244

Assessment of a simple competitive protein-binding technique for plasma cortisol assay, 66

Assessment of the performance of the SMA 12-micro AutoAnalyzer in clinical use, 70

AutoAnalyzer, SMA 12-micro, assessment of performance in clinical use, 70

B

BAILLOD, R. A.: *See* MOORHEAD, J. F. *et al.*

BAMFORD, E.: *See* AMES, A. C., and BAMFORD, E.

Barbiturate, blood, why measure, 156

BARON, D. N., BROUGHTON, P. M. G., COHEN, M., LANSLEY, T. S., LEWIS, S. M., and SHINTON, N. K. Letter to editor: S.I. Units, 132

Biochemical findings in renal osteodystophy, comparison with radiological findings, 126

Blood barbiturate, why measure, 156

Blood containers, septum-sealed, device for sampling, 212

Blood lactate and pyruvate estimations, reappraisal of blood sampling techniques, 252

Blood sampling techniques for lactate and pyruvate, a reappraisal, 252

BOOK REVIEWS:

Anido, G., van Kampen, E. J., and Rosalki, S. B., eds.: *Progress in Quality Control in Clinical Chemistry*. Transactions of the Fifth International Symposium, Geneva, April 10-11, 1973, 271

Bondy, P. K., and Rosenberg, L. E., eds.: *Duncan's Diseases of Metabolism*. 7th edn. Vol. 1. Genetics and Metabolism; Vol. 2. Endocrinology, 1974, 274

Braun, W., Lichtenstein, L. M., and Parker, C. W., eds.: *Cyclic AMP, Cell Growth and the Immuno Response*, Symposium, 1974, 177

Bruck, S. D.: *Blood Compatible Synthetic Polymers*, 1974, 43

Crosignani, P. G., and James, V. H. T., eds.: *Recent Progress in Reproductive Endocrinology*, Fourth Serono Foundation Symposium, 1974, 218

Dyke, S. C.: *Recent Advances in Clinical Pathology*, 1973, 42

Foreman, J. K., and Stockwell, P. B.: *Automatic Chemical Analysis*, 1975, 272

Gibbins, R. G., Israel, Y., Kalant, H., Popham, R. E., Schmidt, W., and Smart, R. G., eds.: *Recent Advances in Alcohol and Drug Problems*, Vol. 1, 1974, 134

Giddins, J. C., and Keller, R. A., eds.: *Advances in Gas Chromatography*, Vol. 11, 1974, 187

Henry, R. J., Cannon, D. C., and Winkelman, J. W.: *Clinical Chemistry, Principles and Techniques*, 1974, 41

Jacobs, A., and Worwood, M., eds.: *Iron in Biochemistry and Medicine*, 1974, 77

Josimovich, J. B., Reynolds, M., and Cobo, E. eds.: *Lactogenic Hormones, Fetal Nutrition and Lactation*, Problems of Human Reproduction Series, 1973, 133

Kee-Chang-Huang.: *Outline of Pharmacology*, 1974, 271

Kowal, J.: *Endocrine Research Communications*, Vol. 1, 1974, 42

Kowalewski, S. L.: *Die Isoenzyme der Lactatdehydrogenase*, 1972, 272

Llaurado, J. G., Sances, A., jun., and Battocletii, J. H.: *Biologic and Clinical Effects of Low-frequency Magnetic and Electric Fields*, 1974, 270

Leicester, H. M.: *Development of Biochemical Concepts from Ancient to Modern Times*, 1974, 133

Lowe, G. R., and Dean, P. D. G.: *Affinity Chromatography*, 1974, 270

Milton Publishing Co. Ltd.: *Diagnostics Index*, Vol. 1, No. 2, 1975, 216

Mitruka, Brij M.: *Gas Chromatographic Applications in Microbiology and Medicine*, 1975, 216

Nahas, G., and Schaefer, K. E., eds.: *Carbon Dioxide and Metabolic Regulations*. Topics in Environmental Physiology and Medicine Vol. 1. Satellite Symposium of the 25th International Congress of Physiology, Monaco, 1971, 1974, 274

Natelson, S., Scommegna, A., and Epstein, M. B., eds.: *Amniotic Fluid*, 1974, 275

Price, N. C., and Dwek, R. A.: *Principles and Problems in Physical Chemistry for Biochemists*, 1974, 272

Quay, W. B.: *Pineal Chemistry, in Cellular and Physiological Mechanisms*, 1974, 41

Raine, D. N., ed.: *Molecular Variants in Disease*, Symposium, 1974, 134
Regamey, R. H., Joo, I., and Hennessen, W., eds.: *Developments in Biological Standardization*, 1974, 217
Salmona, M., Saronia, C., and Gorathini, S.: *Insolubilized Enzymes*, 1975, 275
Shulman, S.: *Tissue Specificity and Autoimmunity, Molecular Biology, Biochemistry, and Biophysics*, No. 16, 1974, 133
Siggard-Anderson, O.: *The Acid-Base Status of the Blood*, 1975, 178
Stryer, L.: *Biochemistry*, 1975, 217
Tadashi, Kawai: *Clinical Aspects of the Plasma Proteins*, 1973, 42
Wallach, D. F. H. and Winzler, R. J.: *Evolving Strategies and Tactics in Membrane Research*, 1974, 177
Weissbluth, M.: *Hemoglobin.* Co-operativity and Electronic Properties. Molecular Biology Biochemistry and Biophysics No. 15, 1974, 273
Whitby, L. G., Percy-Robb, I. W., and Smith, A. F.: *Lecture Notes on Clinical Chemistry*, 1975, 216
Wootton, I. D. P.: *Microanalysis in Medical Biochemistry*, 1974, 43

BRAYBROOKE, J., LLOYD, B., NATTRASS, M., and ALBERTI, K. G. M. M.: Blood sampling techniques for lactate and pyruvate estimation, a reappraisal, 252
BROUGHTON, P. M. G.: *See* BARON, D. N., *et al.*
BROWN, S. S.: *See* ROSALKI, S. B., *et al.*

C

Calcium, total, plasma, reference range derived from a study of hospital patients, 255
Carbohydrate and lipid metabolism disorders in renal disease, 179
Carryover in continuous flow systems, estimation of, Short Report, 32
CARTER, P. M.: *See* SLATER, LINDA, CARTER, P .M., and HOBBS, J. R.
'Centrifichem' parallel fast analyser, performance using packaged reagents, 119
CHAN, V., MERRETT, T., LANDON, J., LINDEN, ANN-MARIE, and JOUSTRA, M.: A simple solid-phase radioimmunoassay for triiodothyronine, 173
CHARLES, R. G.: *See* PENNOCK, C. A., *et al.*
Clinical biochemistry services for liver transplantation, 14
Clinical chemistry, prospects for mass spectrometry in, 51
Clinical laboratory, the role of the Greiner Selective Analyzer, an evaluation, 182
COHEN, M.: *See* BARON, D. N., *et al.*
Comparative study of manual methods for serum triglyceride estimations, 9
Comparison of biochemical with radiological findings in renal osteodystrophy, 126
Comparison of a fluorimetric method and a competitive protein-binding assay kit for the determination of plasma hydroxicorticosteroids, 160
Comparison of gas-liquid chromatography and a titration method for the determination of plasma non-esterified fatty acid levels during pregnancy, 249
Competitive protein-binding assay kit for plasma hydroxicorticosteroid determination, comparison with fluorimetric method, 160
Competitive protein-binding assay of serum cortisol without solvent extraction, 244
Continuous flow systems, estimation of carryover, 32
COOK, J. G. H.: Application of analytical methods to automatic analysers, Vickers Award lecture, 163
COOKE, J. G. H.: Factors affecting the assay of creatinine, Technical Bulletin No. 36, 219
Cortisol, plasma, assessment of a simple competitive protein-binding assay technique, 66
Cortisol, serum assay by competitive protein-binding without solvent extraction, 244
CRAMP, D. G. and WILLIS, M. R.: Disorders of carbohydrate and lipid metabolism in renal disease, a short review, 179
Creatinine, factors affecting assay, Technical Bulletin No. 36, 219
CROWLEY, MARY F., GARBIEN, KATHERINE J. T., and TUTTLEBEE, J. W.: Assessment of a simple competitive protein-binding technique for plasma cortisol assay, 66

D

Development and evaluation of a six-channel automated analyser for 24-hour urine specimens, 25
Digoxin, serum, estimation by radioimmunoassay, 175
Disorders of carbohydrate and lipid metabolism in renal disease, 179
DUNNETT, N.: *See* ISAACS, M. D. J., *et al.*

E

Effect of paracetamol on uric acid determination, 142
ELLIOTT, JENNIFER A.: *See* YOUNG, MAUREEN, *et al.*
Enzymes, factors affecting release from human erythrocytes, 58
Enzymes, serum, maternal, in the measurement of feto-placental function, Scientific Review, No. 3, 83
Erythrocyte enzymes and pyruvate kinase, rapid micromethod for preparation of leucocyte-free haemolysate for determination, 263
Erythrocytes, human, factors affecting release of haemoglobin and enzymes, 58
Estimation of serum digoxin by radioimmunoassay, 175
Evaluation of Greiner Selective Analyzer and its role in the clinical laboratory, 182
Evaluation of a kit (Thyrolute) for the combined determination of serum total thyroxine and sequential free thyroxine index using Sephadex G-25 and ^{125}I-thyroxine, 200

F

Factors affecting assay of creatinine, Technical Bulletin No. 36, 219
Factors affecting release of haemoglobin and enzymes from human erythrocytes, 58
Fatty acids, non-esterified, plasma, in pregnancy, comparison of gas-liquid chromatography and titration methods, 249
FLECK, A.: *See* MCLELLAND, A. S., *et al.*
FLECK, A.: *See* ROSALKI, S. B., *et al.*

FRASER, S. C.: Some problems in the use of 'Vacutainers', 268
Future of the measurement of intermediary metabolites in clinical medicine, 192

G

GARBIEN, KATHERINE J. T.: *See* CROWLEY, MARY F., *et al.*
Gas chromatographic assay for paracetamol, simplified, 4
GILMORE, ELIZABETH A.: *See* YOUNG, MAUREEN, *et al.*
γ-Glutamyltransferase in breast milk, 48
Glycosaminoglycan fractions in normal human urine, 207
GOLDFINCH, M. E. and PRUDHOE, K.: A comparative study of manual methods for serum triglyceride estimation, 9
GORE, MARION and LESTER, EVA: Comparison of a fluorimetric method and a competitive protein-binding assay kit for the determination of plasma hydroxycorticosteroids, 160
Greiner Selective Analyzer, evaluation and its role in the clinical laboratory, 182

H

Haemoglobin, factors affecting release from human erythrocytes, 58
HEATH, D. A.: *See* WILDING, P. and HEATH, D. A.
HENRY, P. and SAUNDERS, R. A.: The performance of the 'Centrifichem' fast analyser using package reagents, 119
HIRST, A. D. and HOWARTH, P. J. N.: Estimation of carryover in continuous flow systems, Short Report, 32
HIRST, A. D. and HOWORTH, P. J. N.: Development and evaluation of a six-channel automated analyser for 24-hour urine specimens, 25
HOBBS, J. R.: *See* SLATER, LINDA, *et al.*
HOFFENBERG, R.: Understanding thyroid disease, lessons for the future, 135
HOLDER, G.: *See* MORRIS, R. and HOLDER, G.
HOOPER, J.: A reference range for plasma total calcium derived from a study of hospital patients, 255
HOWORTH, P. J. N., MCKERRON, C. G., and MARSDEN, P.: Evaluation of a kit (Thyrolute) for the combined determination of serum total thyroxine and sequential free thyroxine index using Sephadex G-25 and ^{125}I-thyroxine, 200
HOWORTH, P. J. N.: *See* HIRST, A. D. and HOWORTH, P. J. N.
HOWORTH, P. J. N.: *See* HIRST, A. D. and HOWORTH, P. J. N. (Short Report)
Human chorionic gonadotrophin in the assessment of feto-placental function, Scientific Review No. 3, 83
Human placental lactogen, in the assessment of feto-placental function, Scientific Review No. 3, 83
Hydroxycorticosteroid, plasma, comparison of fluorimetric method and competitive protein-binding assay kit for determination, 160

I

IgG, IgA and IgM by formylated rocket immunoelectrophoresis, 19
Immunoelectrophoresis, formylated rocket measurement of IgG, IgA and IgM, 19
Indigenisation of pathology, 45
Intermediary metabolites, the future of the measurement in clinical medicine, 192
Investigation into the automated measurement of urinary oestrogens in pregnancy, 233
Investigation of the validity of temperature correction factors for serum aspartate and alanine transaminases, Technical Bulletin No. 35, 78
ISAACS, M. D. J., DUNNETT, N., NICHOLSON, D. J., and JENKINS, R. W.: A sampling device for septum-sealed blood containers, 212
^{125}I-thyroxine, evaluation of kit (Thyrolute) for determination, 200

J

JENKINS, R. W.: *See* ISAACS, M. D. J., *et al.*
JOHNSON, K. P.: *See* WILKINSON, J. H. *et al.*
JOUSTRA, M.: *See* CHAN, V. *et al.*

L

Lactate, blood, reappraisal of sampling techniques for estimation, 252
LANDON, J.: *See* CHAN, V., *et al.*
LANDON, M.: γ-glutamyltransferase in breast milk, 48
LANSLEY, T. S.: *See* BARON, D. N., *et al.*
LAWSON, A. M.: Prospects for mass spectrometry in clinical medicine, 51
LEONARD, J. V.: An assessment of the performance of the SMA 12-micro AutoAnalyzer in clinical use, 70
LESTER, EVA: *See* GORE, MARION and LESTER, EVA
Letters to Editor—S.I. units, 132
—Spurious potassium results, 215
LEWIS, S. M.: *See* BARON, D. N., *et al.*
LINDEN, ANN-MARIE: *See* CHAN, V., *et al.*
LINES, J. G.: Clinical biochemistry services for liver transplantation, 14
Lipid and carbohydrate metabolism disorders in renal disease, 179
Liver transplantation, clinical biochemistry services for, 14
LLOYD, B.: *See* BRAYBROOKE, J., *et al.*

M

MARKS, V.: *See* WOOD, P. J., *et al.*
MARSDEN, P.: *See* HOWORTH, P. J. N., *et al.*
Mass spectrometry in clinical chemistry, prospects for, 51
MCCORMACK, J. J.: *See* ROSALKI, S. B., *et al.*
MCDONALD-GIBSON, R. G.: *See* YOUNG, MAUREEN, *et al.*
MCKERRON, C. G.: *See* HOWORTH, P. J. N., *et al.*
MCLAUCHLAN, D. M., RAGGATT, P. R., and ZILVA, JOAN: S.I. units: how systematic and how international are they? 1
MCLAUCHLAN, D. M., RAGGART, P. R., and ZILVA, JOAN: S.I. units, letter to Editor, 132
MCLELLAND, A. S., FLECK, A., WAGSTAFF, D., and ROBINSON, R.: Variations in mechanical sampling, their causes and effects, 145
Measurement of albumin in sera of patients, Technical Bulletin No. 34, 34
MERRETT, T.: *See* CHAN, V., *et al.*

Milk, breast, γ-glutamyltransferase in, 48
MITCHELL, F. L.: The indigenisation of pathology, 45
MOORHEAD, J. F., VARGHESE, Z., TATTLER, G. L. V., BAILLOD, R. A., and WILLS, M. R.: Comparison of biochemical with radiological findings in renal oestodystrophy, 126
MORRIS, R. and HOLDER, G.: Assay of cortisol in serum by competitive protein-binding without solvent extraction, 244

N

NATRASS, M.: *See* BRAYBROOKE, J., *et al.*
NICHOLSON, D. J.: *See* ISAACS, M. D. J.,*et al.*
Notes on the radioimmunoassay of human thyrotrophin, 196

O

OAKEY, R. E.: *See* WILDE, C. E. and OAKEY, R. E.
Oestrogens, urinary, amniotic fluid and plasma, in the assessment of feto-placental function, Scientific Review No. 3, 83
Oestrogens, urinary in pregnancy, investigation into automated measurement, 233

P

PADMORE, G. R. A.: *See* ROSALKI, S. B., *et al.*
Paracetamol, effect on serum uric acid determination, 142
Paracetamol, simplified gas chromatographic assay, 4
Pathology, indigenisation of, 45
PEEL, D.: Spurious potassium results, 215
PENNOCK, C. A., CHARLES, R. G., and STANSBIE, D.: Glycosaminoglygan fractions in normal human urine 207
Performance of the 'Centrifichem' parallel fast analyser using packaged reagents, 119
Plasma cortisol, assessment of competitive protein-binding technique for assay, 66
Plasma fatty acids, non-esterified, in pregnancy, comparison of gas-liquid chromatography and titration methods, 249
Plasma hydroxycorticosteroid determination, comparison of fluorimetric and competitive protein-binding assay kit methods, 160
Plasma total calcium, reference range derived from study of hospital patients, 255
Potassium, spurious results, 215
Problems in the development of new instruments, 169
Problems in the development of new instruments, correction, 215
Prospects for mass spectrometry in clinical chemistry, 51
PRUDHOE, K.: *See* GOLDFINCH, M. E., and PRUDHOE, K.
PUXLEY, HILARY J.: *See* THURLOW, VANESSA R. and PUXLEY, HILARY J.
Pyruvate, blood estimation, reappraisal of sampling techniques, 252
Pyruvate kinase and other erythrocyte enzymes, rapid method for preparation of leucocyte-free haemolysates for determination, 263

R

Radioimmunoassay of human thyrotrophin, 196
RAGGATT, P. R.: *See* MCLAUCHLAN, D. M., *et al.*
Rapid micromethod for the preparation of leucocyte-free haemolysates for the determination of pyruvate kinase and other erythrocyte enzymes, 263
Reference range for plasma total calcium derived from a study of hospital patients, 255
Renal disease, carbohydrate and lipid metabolism disorders, 179
Renal osteodystrophy, comparison of biochemical and radiological findings, 126
RILEY, C.: Problems in the development of new instruments, Vickers Award lecture, 169
ROBINSON, JEAN M.: *See* WILKINSON, J. H. *et al.*
ROBINSON, R.: *See* MCLELLAND, A. S. *et al.*
ROSALKI, S. B., BROWN, S. S., FLECK, A., MCCORMACK, J. J., PADMORE, G. R. A., SMITH, A. F., and WILKINSON, J. H.: Investigation of the validity of temperature correction factors for serum aspartate and alanine transaminases, Technical Bulletin No. 34, 78

S

Sampling device for septum-sealed blood containers, 212
Sampling, mechanical, causes and effects of variation in, 145
SAUNDERS, R. A.: *See* HENRY, P. and SAUNDERS, R. A.
Scientific Review No. 3, Biochemical tests for assessment of feto-placental function, 83
Serum albumin, measurement, Technical Bulletin No. 34, 33
Serum cortisol, assay by competitive protein-binding without solvent extraction, 244
Serum digoxin, estimation by radioimmunoassay, 175
Serum total thyroxine and free thyroxine index, evaluation of kit (Thyrolute) for determination, 200
Serum transaminases, aspartate, and alanine, investigation of validity of correction factors, 78
Serum triglycerides, comparative study of manual methods of estimation, 9
Serum uric acid, effect of paracetamol on determination, 142
SHINTON, N. K.: *See* BARON, D. N., *et al.*
SHORT REPORTS
Estimation of carryover in continuous flow systems, 32
Estimation of serum digoxin by radioimmunoassay, 173
Simple solid-phase radioimmunoassay for triiodothyronine, 173
Some problems in the use of 'Vacutainers', 268
S.I. units, how systematic and how international are they? 1
S.I. units, letters to Editor, 132
SIMKINS, A. and WORTH, H. G. J.: An investigation into the automated measurement of urinary oestrogens in pregnancy, 233
Simplified gas chromatographic assay for paracetamol, 4
SIMPSON, E. and STEWART, M.: Why measure blood barbiturate? 156
SKINNER, A. G. and WILDING, P.: An evaluation of the Greiner Selective Analyzer and its role in the clinical laboratory, 182
SLATER, LINDA: IgG, IgA and IgM by formylated rocket immunoelectrophoresis, 19

SLATER, LINDA, CARTER, P. M., and HOBBS, J. R.: Measurement of albumin in the sera of patients, Technical Bulletin No. 34, 33
SMITH, A. F.: *See* ROSALKI, S. B., *et al.*
SMITH, JANET: *See* WOOD, P. J., *et al.*
Spurious potassium results, Letter to Editor, 215
STANSBIE, D.: *See* PENNOCK, C. A., *et al.*
STEWART, M.: *See* SIMPSON, E. and STEWART, M.
STEWART, M. J. and WILLIS, R. G.: Simplified gas chromatographic assay for paracetamol, 4

T

T_3 and T_4, serum and urinary, in thyroid disease, 135
TATTLER, G. L. V.: *See* MOORHEAD, J. F. *et al.*
Technical Bulletin No. 34, Measurement of albumin in the sera of patients, 33
Technical Bulletin No. 35, Investigation of the validity of temperature correction factors for serum aspartate and alanine transaminases, 78
Technical Bulletin No. 36, Factors affecting the assay of creatinine, 219
Temperature correction factors for serum transaminases, investigation of validity, 78
THURLOW, VANESSA R. and PUXLEY, HILARY J.: Estimation of serum digoxin by radioimmunoassay, 175
Thyroid disease, understanding, lessons for the future, 135
'Thyrolute' kit for determination of serum total thyroxine, free thyroxine index and ^{125}I-thyroxine, evaluation, 200
Thyrotrophin, human, radioimmunoassay, 196
Transaminases, serum aspartate and alanine, investigation of validity of temperature correction factors, 78
Triglycerides, serum, comparative study of manual methods for estimation, 9
Triiodothyronine, simple solid-phase radioimmunoassay, 173
TSH, serum, in thyroid disease, 135
TUTTLEBEE, J. W.: *See* CROWLEY, MARY F., *et al.*

U

Understanding thyroid disease, lessons for the future, 135
Uric acid, serum, effect of paracetamol on determination, 142
Urinary glycosaminoglygan fractions in normal humans, 207
Urinary oestrogens in pregnancy, investigation into automated measurement, 233
Urine, development and evaluation of a six-channel automated analyser for, 25
Urine, maternal, steroids in assessment of feto-placental function, 83

V

'Vacutainers', some problems in use, 268
'Vacutainer' system for blood collection, an appraisal, 151
VARGHESE, Z.: *See* MOORHEAD, J. F., *et al.*
Variations in mechanical sampling, their causes and effects, 145
Vickers Award lectures, 163 & 169

W

WAGSTAFF, D.: *See* MCLELLAND, A. S., *et al.*
WESTWOOD, A.: Rapid micromethod for the preparation of leucocyte-free haemolysates for the determination of pyruvate kinase and other erythrocyte enzymes, 263
Why measure blood barbiturates? 156
WILDE, C. E. and OAKEY, R. E.: Biochemical tests for the assessment of feto-placental function, Scientific Review No. 3, 83
WILDING, P. and HEATH, D. A.: Effect of paracetamol on uric acid determination, 142
WILDING, P.: *See* SKINNER, A. G. and WILDING, P.
WILKINSON, J. H., ROBINSON, JEAN M., and JOHNSON, K. P.: Factors affecting release of haemoglobin and enzymes from human erythrocytes, 58
WILKINSON, J. H.: *See* ROSALKI, S. B., *et al.*
WILLIS, R. G.: *See* STEWART, M. J. and WILLIS, R. G.
WILLS, M. R.: *See* CRAMP, D. G. and WILLS, M. R.
WILLS, M. R.: *See* MOORHEAD, J. F., *et al.*
WOOD, P. J., SMITH, JANET, and MARKS, V.: Notes on the radioimmunoassay of human thyrotrophin, 196
WORTH, H. G. J.: *See* SIMKINS, A. and WORTH, H. G. J.

Y

YOUNG, MAUREEN, GILMORE, ELIZABETH A., MCDONALD-GIBSON, R. G., and ELLIOTT, JENNIFER A.: A comparison of gas-liquid chromatography and a titration method for the determination of plasma non-esterified fatty acid levels in pregnancy, 249

Z

ZILVA, JOAN, F.: *See* MCLAUCHLIN, D. M., *et al.*